

Substitute for form 1449/PTO

**FOURTH SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet	1	of	1
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***Complete if Known***

Application Number	10/766,711
Filing Date	January 27, 2004
First Named Inventor	W. James JACKSON
Art Unit	1645
Examiner Name	BASKAR, Padmavathi
Attorney Docket Number	2479.0040003/EJH/C-K

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>1</sup> Number <sup>2</sup> Kind Code <sup>3</sup> (if known)				
	FP3	WO 99/28475 A2	06/10/1999	Genset		
	FP4	WO 99/31236 A2	06/24/1999	Genset		
	FP5	WO 00/34483 A2	06/15/2000	Corixa Corporation		
	FP6	WO 01/40474 A2	06/07/2001	Corixa Corporation		
	FP7	WO 02/08267 A2	01/31/2002	Corixa Corporation		

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Sheet	1	of	4	Attorney Docket Number	2479.0040003/EJH/C-K

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	NPL37	BATTEIGER, B.E., <i>et al.</i> , "Partial protection against genital reinfection by immunization of guinea-pigs with isolated outer-membrane proteins of the chlamydial agent of guinea-pig inclusion conjunctivitis," <i>J. Gen. Microbiol.</i> 139:2965-2972, SGM (1993)	
	NPL38	BORK, P., "Powers and pitfalls in sequence analysis: the 70% hurdle," <i>Genome Res.</i> 10:398-400, Cold Spring Harbor Laboratory Press (April 2000)	
	NPL39	BORK, P., and BAIROCH, A., "Go hunting in sequence databases but watch out for the traps," <i>Trends Genet.</i> 12:425-427, Elsevier Trends Journals (October 1996)	
	NPL40	BRENNER, S.E., "Errors in genome annotation," <i>Trends Genet.</i> 15:132-133, Elsevier Trends Journals (April 1999)	
	NPL41	BURGESS, W.H., <i>et al.</i> , "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>J. Cell Biol.</i> 111:2129-2138, The Rockefeller University Press (1990)	
	NPL42	BUSH, R.M., and EVERETT, K.D.E., "Molecular evolution of the <i>Chlamydiaceae</i> ," <i>Int. J. System. Evol. Microbiol.</i> 51:203-220, IUMS (January 2001)	
	NPL43	CLYNE, J.M., <i>et al.</i> , "A rapid chemiluminescent DNA hybridization assay for the detection of <i>Chlamydia trachomatis</i> ," <i>J. Biolumin. Chemilumin.</i> 4:357-366, Wiley & Sons (1989)	
	NPL44	DENAMUR, E., <i>et al.</i> , "Restriction pattern of the major outer-membrane protein gene provides evidence for a homogeneous invasive group among ruminant isolates of <i>Chlamydia psittaci</i> ," <i>J. Gen. Microbiol.</i> 137:2525-2530, SGM (1991)	
	NPL45	DOERKS, T., <i>et al.</i> , "Protein annotation: detective work for function prediction," <i>Trends Genet.</i> 14:248-250, Elsevier Trends Journals (June 1998)	
	NPL46	GRIFFITHS, P.C., <i>et al.</i> , "Epizootic bovine abortion in a dairy herd: characterization of a <i>Chlamydia psittaci</i> isolate and antibody response," <i>Br. Vet. J.</i> 151:683-693, Bailliere Tindall (1995)	

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				Examiner Name	BASKAR, Padmavathi
Sheet	2	of	4	Attorney Docket Number	2479.0040003/EJH/C-K

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	NPL47	HERBERT, <i>The Dictionary of Immunol.</i> , 3 <sup>rd</sup> Ed., Academic Press, London, pp. 58-59 (1985)	
	NPL48	HUTCHINSON, C.A., <i>et al.</i> , "Mutagenesis at a Specific Position in a DNA Sequence," <i>J. Biol. Chem.</i> 253:6551-6560, The American Society of Biological Chemists, Inc. (1978)	
	NPL49	JENKINS, F.J., "Basic Methods for the Detection of PCR Products," <i>PCR Methods and Apps. Manual Supplement</i> , pp. S77-S82, Cold Spring Harbor Laboratory (1994)	
	NPL50	JI, Y., <i>et al.</i> , "Intranasal Immunization with C5a Peptidase Prevents Nasopharyngeal Colonization of Mice by the Group A <i>Streptococcus</i> ," <i>Infect. Immun.</i> 65:2080-2087, American Society for Microbiology (1997)	
	NPL51	JOBLING, M.G., and HOLMES, R.K., "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <i>Mol. Microbiol.</i> 5:1755-1767, Blackwell Scientific Publications (1991)	
	NPL52	KALMAN, S., <i>et al.</i> , "Comparative genomes of <i>Chlamydia pneumoniae</i> and <i>C. trachomatis</i> ," <i>Nat. Genet.</i> 21:385-389 (April 1999)	
	NPL53	KRIEG, A.M., "Therapeutic potential of Toll-like receptor 9 activation," <i>Nat. Rev. Drug Discov.</i> 5:471-484, Nature Publishing Group (June 2006)	
	NPL54	LAZAR, E., <i>et al.</i> , "Transforming Growth Factor $\alpha$ : Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Mol. Cell. Biol.</i> 8:1247-1252, American Society for Microbiology (1988)	
	NPL55	MYGIND, P.H., <i>et al.</i> , "Membrane proteins PmpG and PmpH are major constituents of <i>Chlamydia trachomatis</i> L2 outer membrane complex," <i>FEMS Microbiol. Lett.</i> 186:163-169, Blackwell Publisher (May 2000)	
	NPL56	NGO, J.T., <i>et al.</i> , in <i>The Protein Folding Problem and Tertiary Structure Prediction</i> , Merz, <i>et al.</i> , eds., Birkhauser, Boston, MA, pp. 492-495 (1994)	

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	NPL57	PEIPERT, J.F., "Genital Chlamydial Infections," <i>N. Engl. J. Med.</i> 349:2424-2430, Massachusetts Medical Society (December 2003)		
	NPL58	RANK, R.G., "Animal Models for Urogenital Infections," in <i>Methods in Enzymology Volume 235, Bacterial Pathogenesis Part A—Identification and Regulation of Virulence Factors</i> , Clark, V.L., and Bavoil, P.M., eds., Academic Press, New York, NY, pp. 83-93 (1994)		
	NPL59	RUDINGER, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A., ed., University Park Press, Baltimore, MD, pp. 1-6 (1976)		
	NPL60	SCOPES, R.K., "Overview of Protein Purification and Characterization," in <i>Current Protocols in Protein Science</i> , Taylor, G., ed., John Wiley & Sons, Inc., pp. 1.1.1-1.1.6 (1995)		
	NPL61	SHAW, A.C., <i>et al.</i> , "Comparative proteome analysis of <i>Chlamydia trachomatis</i> serovar A, D and L2," <i>Proteomics</i> 2:164-186, Wiley-VCH Verlag GmbH (February 2002)		
	NPL62	SKOLNICK, J., and FETROW, J.S., "From genes to protein structure and function: novel applications of computational approaches in the genomic era," <i>Trends Biotechnol.</i> 18:34-39, Elsevier Science Publishers (January 2000)		
	NPL63	SMITH, "Anal of Pro," in <i>Short Protocols in Mol. Biol.</i> , Ausubel, F.M., ed., John Wiley & Sons, Inc., pp. 10-1 to 10-4 (1997)		
	NPL64	SMITH, T.X., and ZHANG, X., "The challenges of genome sequence annotation or "the devil is in the details," <i>Nature Biotechnol.</i> 15:1222-1223, Nature America Publishing (November 1997)		
	NPL65	STEPHENS, R.S., <i>et al.</i> , "Genome Sequence of an Obligate Intracellular Pathogen of Humans: <i>Chlamydia trachomatis</i> " <i>Science</i> 282:754-759, American Association for the Advancement of Science (1998)		
	NPL66	SU, H., <i>et al.</i> , "Protective efficacy of a parenterally administered MOMP-derived synthetic oligopeptide vaccine in a murine model of <i>Chlamydia trachomatis</i> genital tract infection: serum neutralizing IgG antibodies do not protect against chlamydial genital tract infection," <i>Vaccine</i> 13:1023-1032, Elsevier Science Ltd. (1995)		

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	NPL67	TANZER, R.J., and HATCH, T.P., "Characterization of Outer Membrane Proteins in <i>Chlamydia trachomatis</i> LGV Serovare L2," <i>J. Bacteriol.</i> 183:2686-2690, American Society for Microbiology (April 2001)	
	NPL68	TUFFREY, M., <i>et al.</i> , "Heterotypic protection of mice against chlamydial salpingitis and colonization of the lower genital tract with a human serovar F isolate of <i>Chlamydia trachomatis</i> by prior immunization with recombinant serovar L1 major outer-membrane protein," <i>J. Gen. Microbiol.</i> 138:1707-1715, Society For General Microbiology (1992)	
	NPL69	Webster's New World, Third, pp. 675 and 1472 (1988)	
	NPL70	WELLS, J.A., "Additivity of mutational effects in proteins," <i>Biochemistry</i> 29:8509-8517, American Chemical Society (1990)	
	NPL71	ATCC Accession No. VR-902B, " <i>Chlamydia trachomatis</i> (Busacca) Rake, Lymphogranuloma enereum (LGV II) strain 434"	
	NPL72	NCBI Entrez, GenBank Report, Accession No. ABB22785, Halse, T.A., <i>et al.</i> (first entered October 2005, last revised August 2006)	
	NPL73	NCBI Entrez, GenBank Report, Accession No. AAP05029, Read, T.D. (first entered April 2003, last revised December 2005)	
	NPL74	Co-pending and commonly-owned U.S. Patent Application No. 09/677,752, inventor W. James Jackson, filed on October 2, 2000 (NOT PUBLISHED)	
	NPL75	Co-pending and commonly-owned U.S. Patent Application No. 11/781,203, inventor W. James Jackson, filed on July 20, 2007 (NOT PUBLISHED)	
	NPL76	Co-pending and commonly-owned U.S. Patent Application No. 11/781,199, inventor W. James Jackson, filed on July 20, 2007 (NOT PUBLISHED)	

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